

ABSTRACT

5 A filter membrane, methods of making such filter  
membrane and apparatus employing such filter membrane are  
disclosed, in which the filter membrane is a monolithic  
polymeric membrane that includes a polymeric filter layer  
including a micron-scale precision-shaped pores and a  
polymeric support layer that has a precision-shaped  
porous support structure for the filter layer. Several  
10 methods are disclosed for making such a membrane using  
micromachining techniques, including lithographic, laser  
ablation and x-ray treatment techniques. Several filter  
apparatus employing such a membrane are also disclosed.

2015-12-22 14:22:22